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A P P L I C A T I O N

for

UNITED STATES LETTERS PATENT

on

CLONING AND RECOMBINANT PRODUCTION  
OF RECEPTOR(S) OF THE ACTIVIN/TGF- $\beta$  SUPERFAMILY  
METHODS OF SCREENING FOR COMPOUNDS THAT BIND  
TO ACTIVIN RECEPTOR  
by

Lawrence S. Mathews,

Wylie W. Vale,

and

Kunihiro Tsuchida

Number of Drawings: Six

Docket No.: P41 9981  
Salk File No.: S95045

Attorneys

Pretty, Schroeder, Brueggemann & Clark  
444 South Flower Street, Suite 2000  
Los Angeles, California 90071

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CLONING AND RECOMBINANT PRODUCTION  
OF RECEPTOR(S) OF THE ACTIVIN/TGF- $\beta$  SUPERFAMILY

RELATED APPLICATIONS

is a division of 08/476,123, filed June 7, 1995, now PAT 6,112,377, and  
This application is a continuation-in-part of  
United States Serial Number 08/300,584, filed September 2,  
5 1994, now pending, which is a continuation of United States  
Serial Number 07/880,220, filed May 8, 1992, now abandoned,  
which is a continuation-in-part of United States Serial  
Number 07/773,229, filed October 9, 1991, now abandoned,  
which is, in turn, a continuation-in-part of United States  
10 Serial Number 07/698,709, filed May 10, 1991, now  
abandoned.

ACKNOWLEDGEMENT

15 This invention was made with Government support  
under Grant Numbers HD 13527 and DK 26741, awarded by the  
National Institutes of Health. The Government has certain  
rights in this invention.

20 FIELD OF THE INVENTION

The present invention relates to receptor  
proteins, DNA sequences encoding same, and various uses  
therefor.

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BACKGROUND OF THE INVENTION

Activins are dimeric proteins which have the  
ability to stimulate the production of follicle stimulating  
30 hormone (FSH) by the pituitary gland. Activins share a  
common subunit with inhibins, which inhibit FSH secretion.

Activins are members of a superfamily of  
polypeptide growth factors which includes the inhibins, the  
35 transforming growth factors- $\beta$  (TGF- $\beta$ ), Mullerian duct

RL 1  
7/2/2004

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